

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Tooling Kit Content Verification System

The Capstone Experience

Team United Airlines

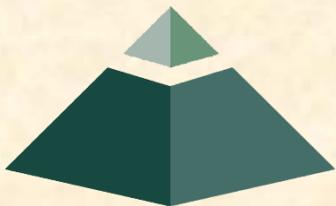
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*From Students...
...to Professionals*

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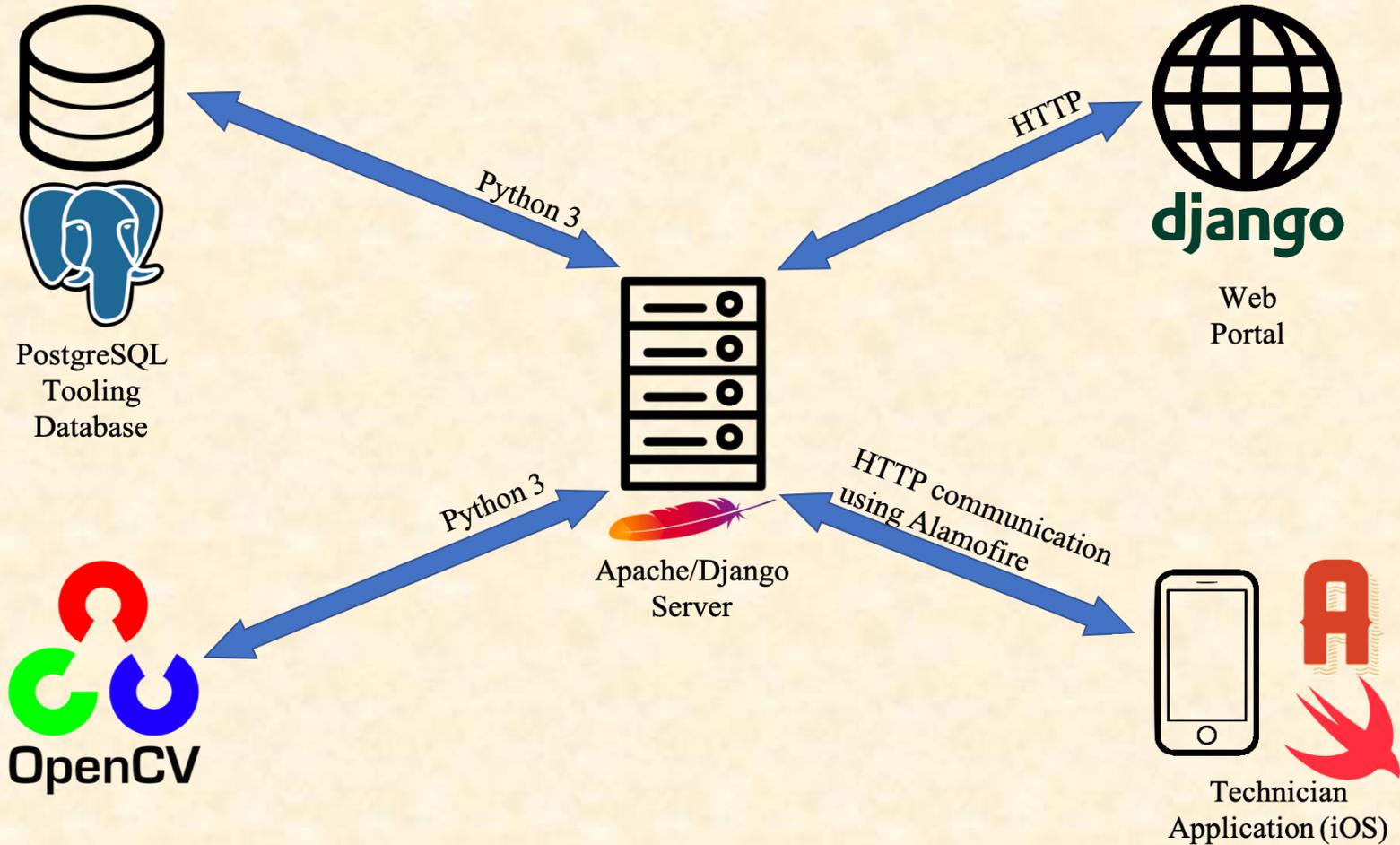
Fall 2018

Project Overview

- To perform proper maintenance of its airplanes, United needs a way to determine if a toolkit is complete or not.
- iOS mobile application for technicians to validate required tools are contained in toolkit
- Python web application
- OpenCV library used for image analysis
- iOS app written in Swift 4.2
- Django web framework



System Architecture



What's left to do?

- Handle small tools
- Expand image processing to additional toolkits
- Store images, check in and check out attempts within database



Questions?

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